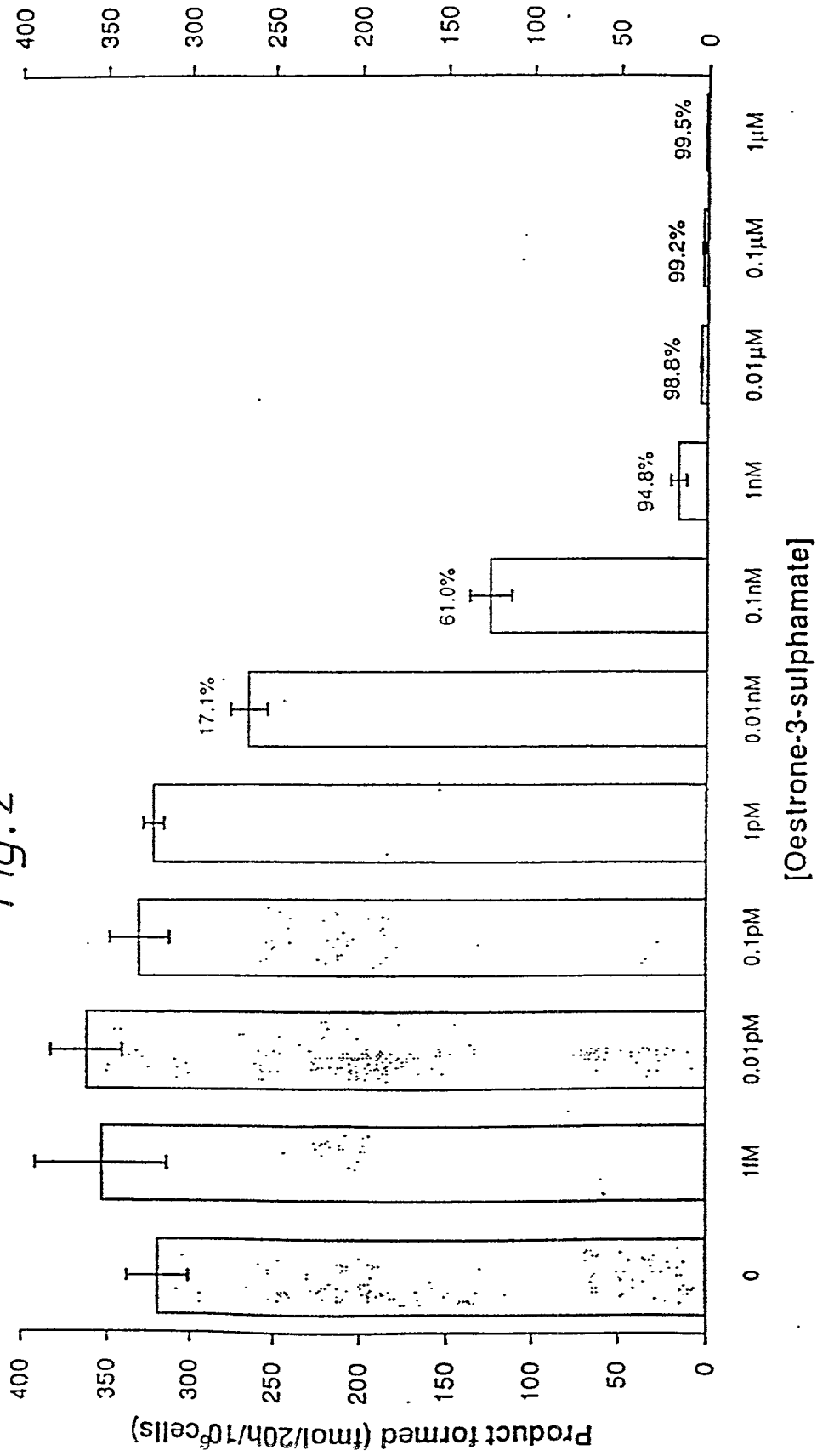


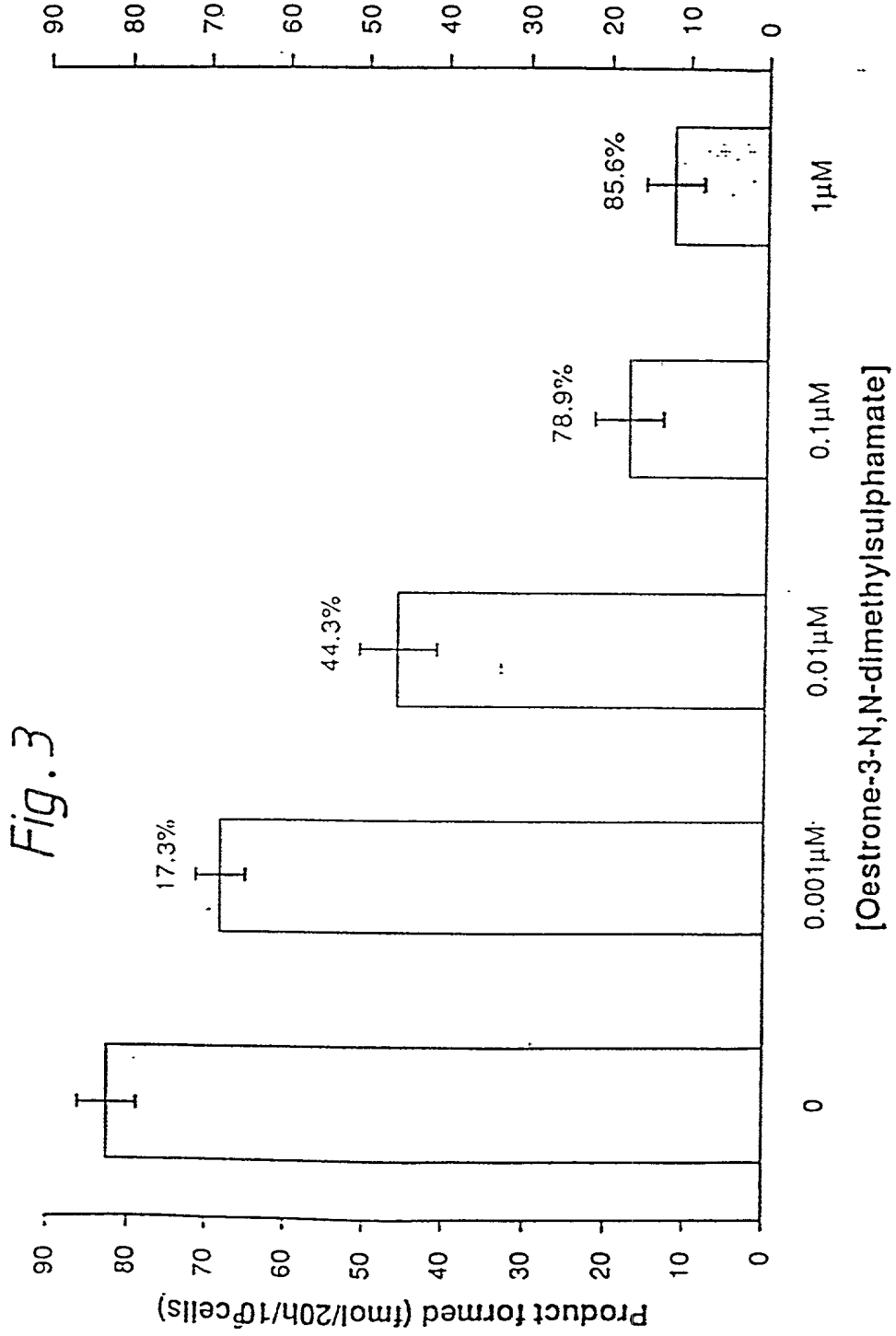
Fig.1

KEY ENZYMES IN STEROIDOGENESIS:-

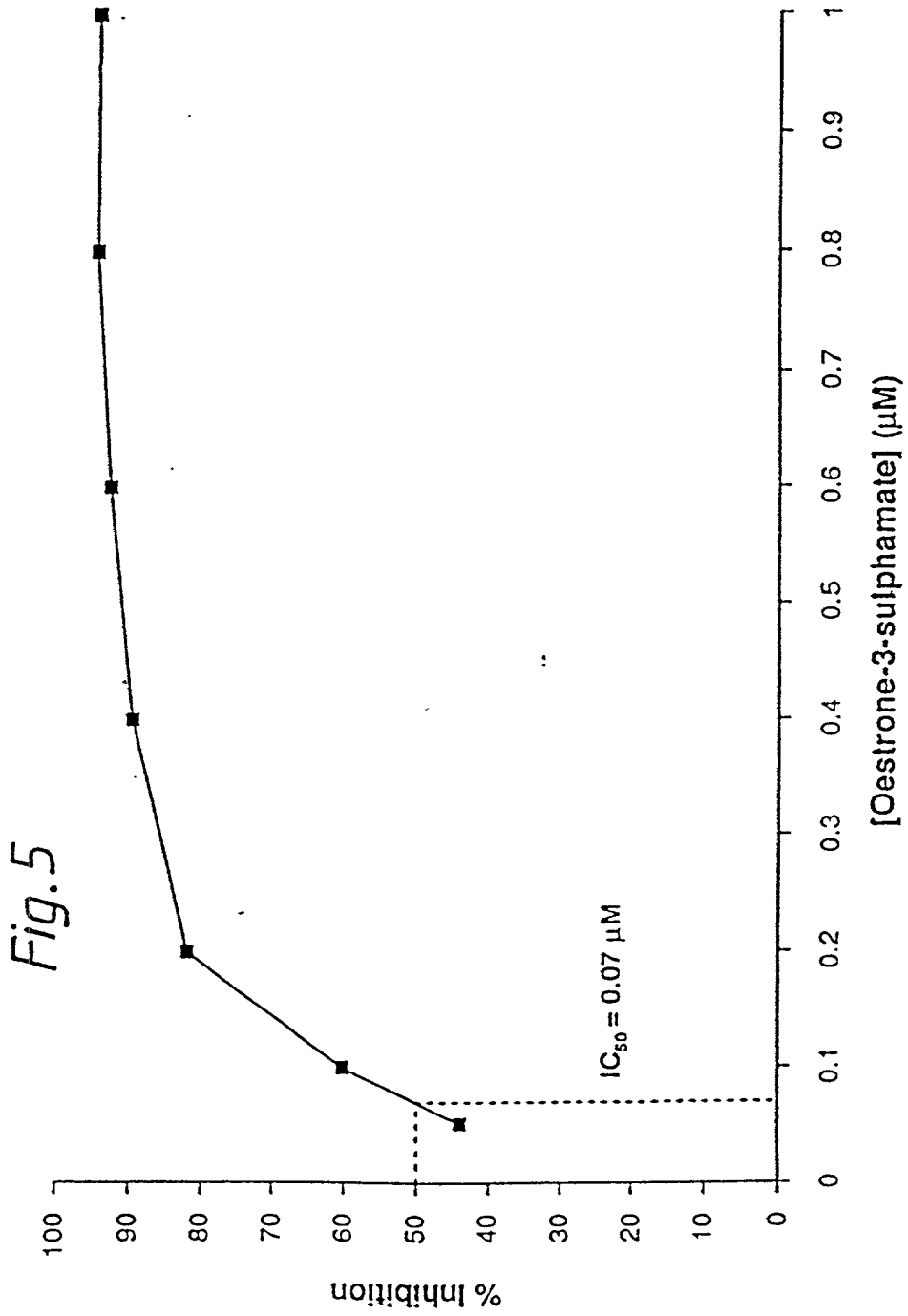
- 1. SULPHATASE
- 2. AROMATASE
- 3. DEHYDROGENASE
- 4. 5αREDUCTASE

Fig. 2





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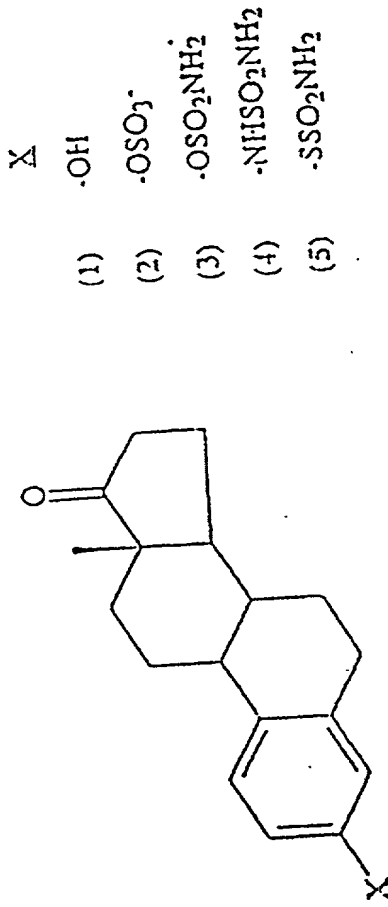
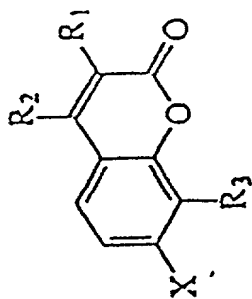


FIG. 6



	X	R ₁	R ₂	R ₃
(11)	-OH	H	H	H
(12)	-OSO ₃ ⁻	H	CH ₃	H
(13)	-OSO ₂ NH ₂	H	H	H
(14)	-OSO ₂ NH ₂	H	CH ₃	H
(15)	-OSO ₂ NH ₂	CH ₃	CH ₃	CH ₃
(16)	-OSO ₂ NH ₂	H	CF ₃	H

FIG. 7

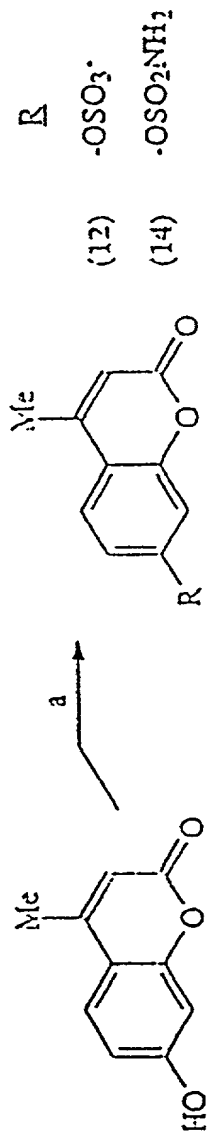


FIG. 8

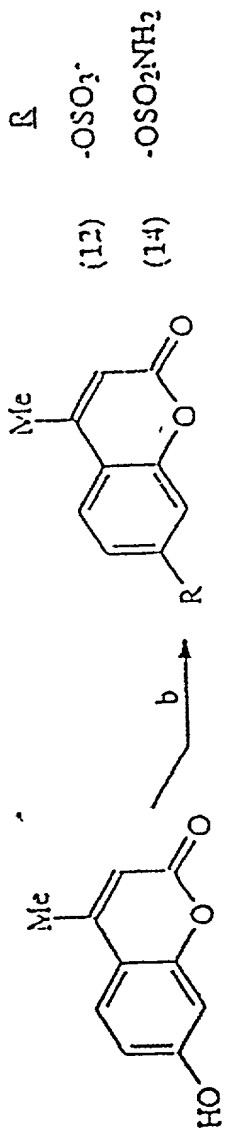


FIG. 9

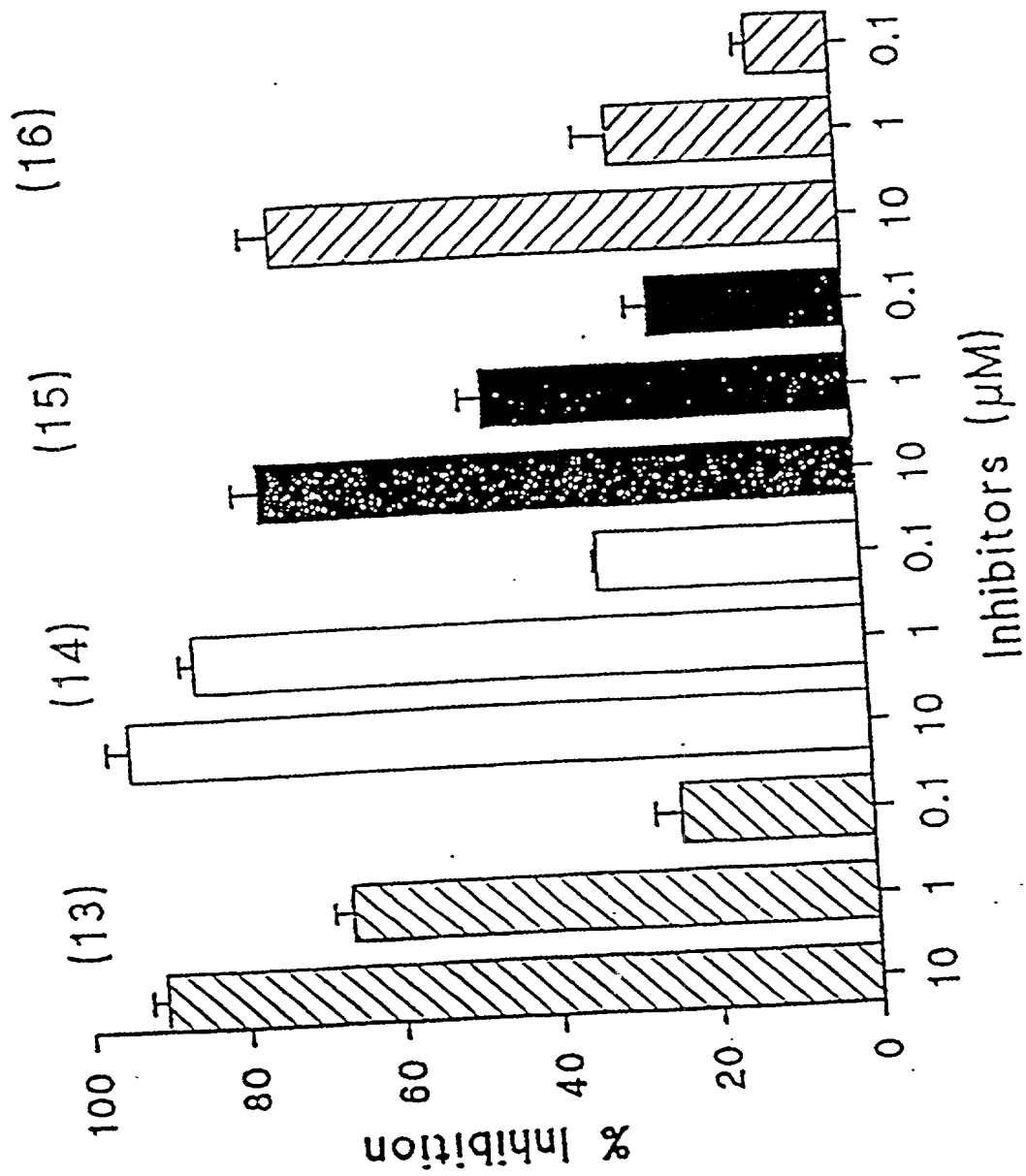


FIG. 10

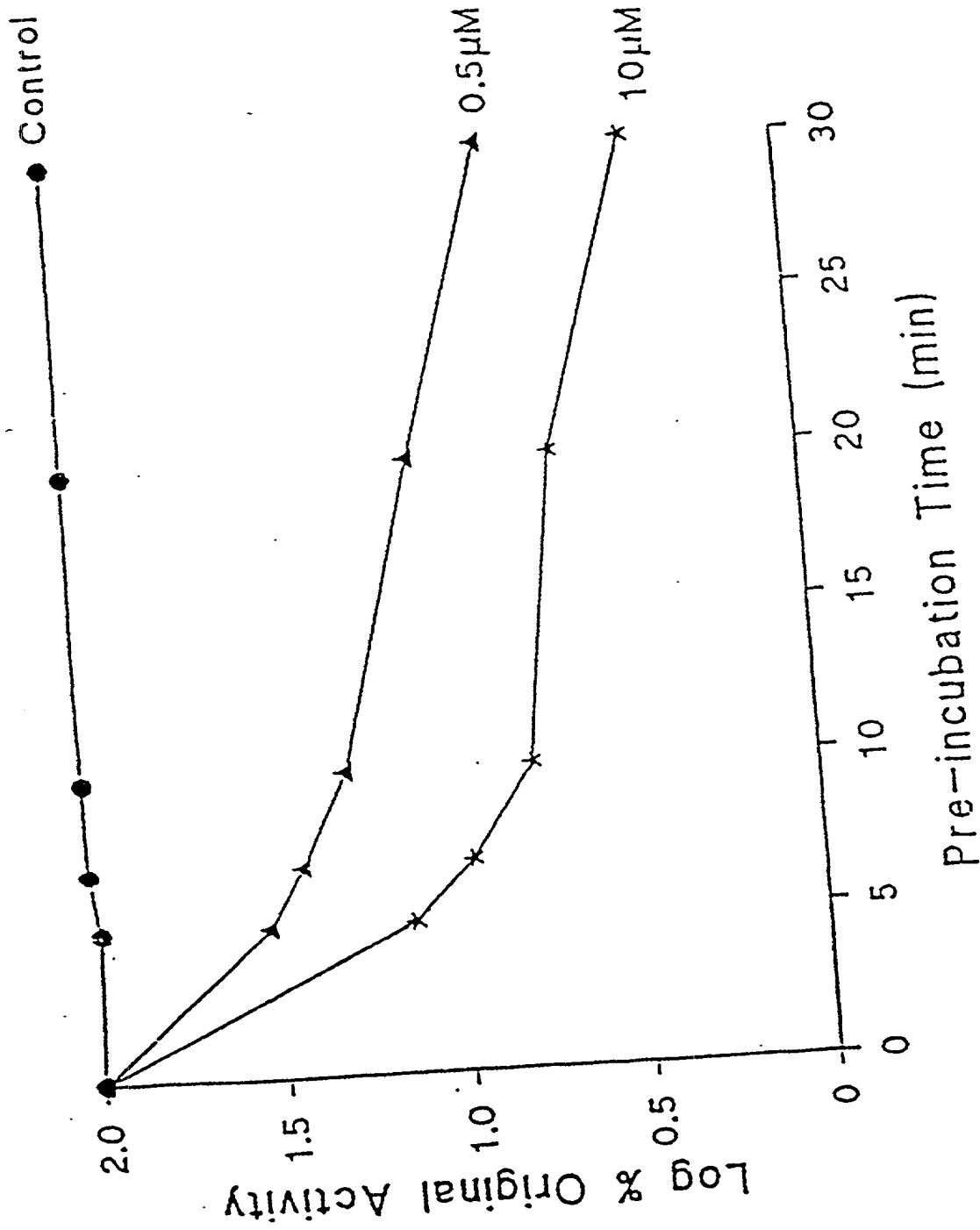


FIG.11

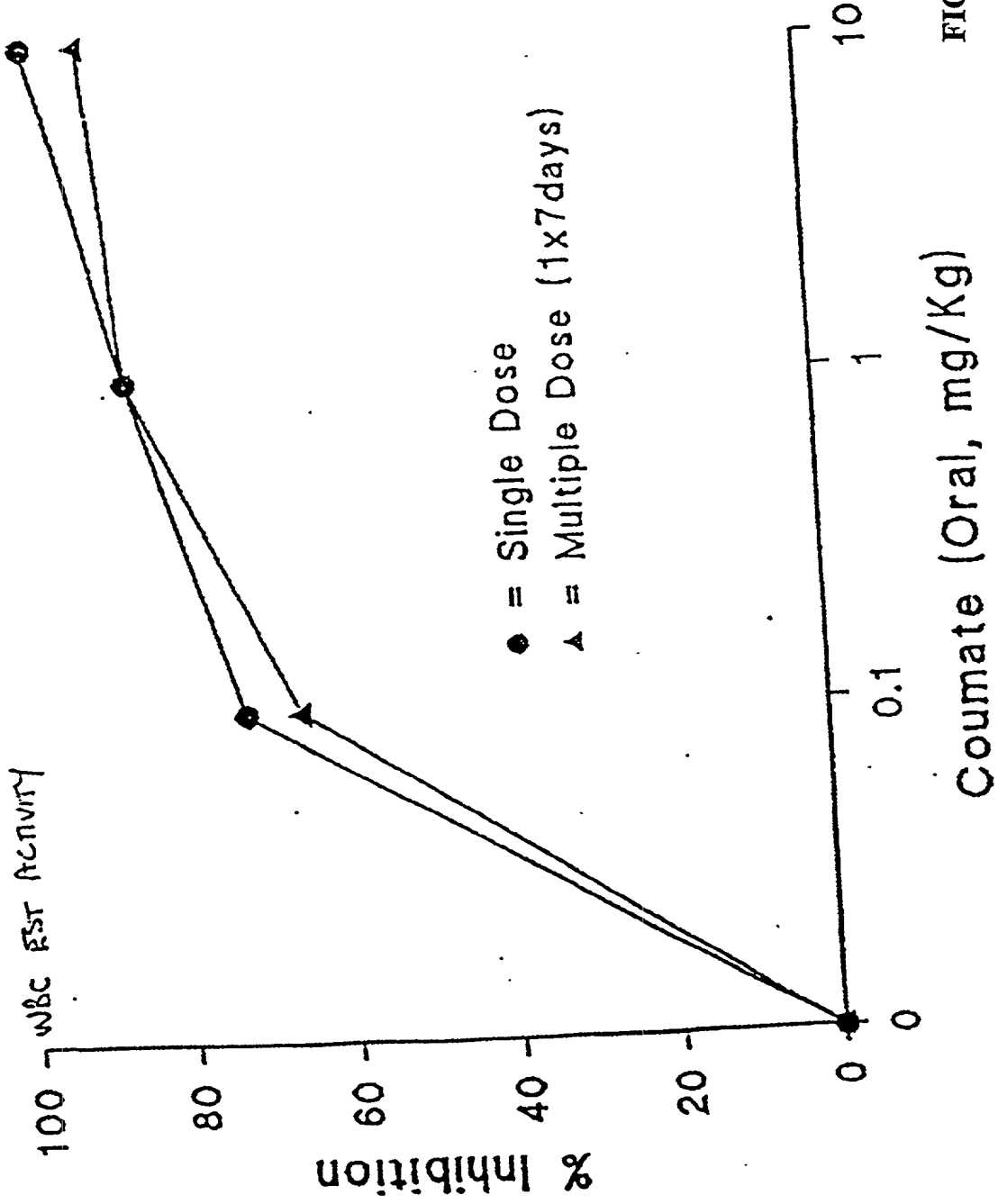


FIG. 12

FIG. 13

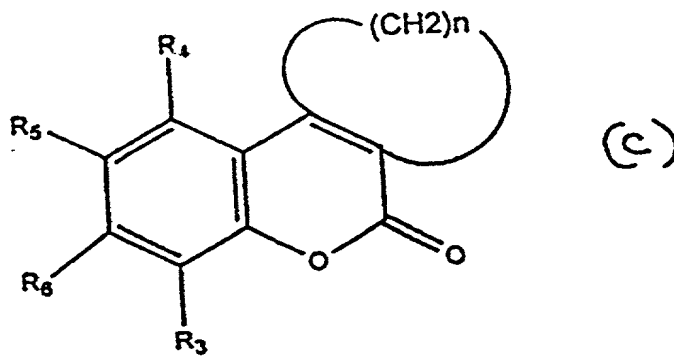
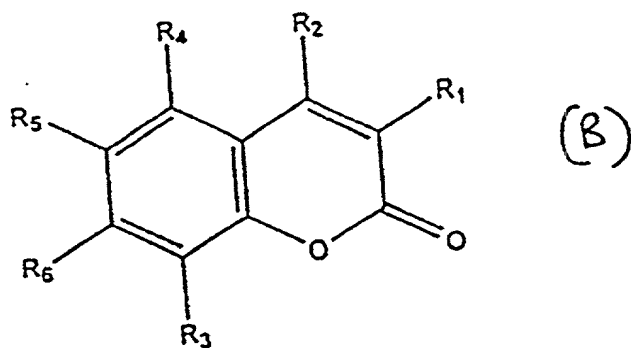
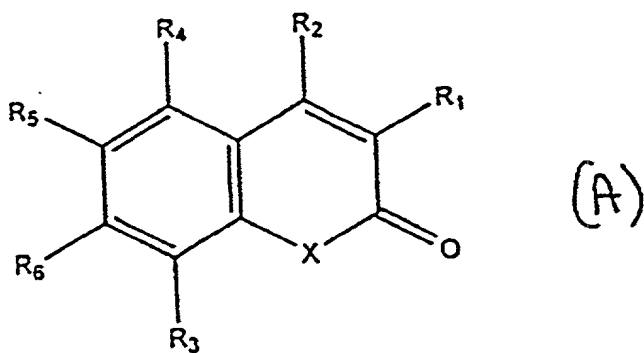


FIG. 14

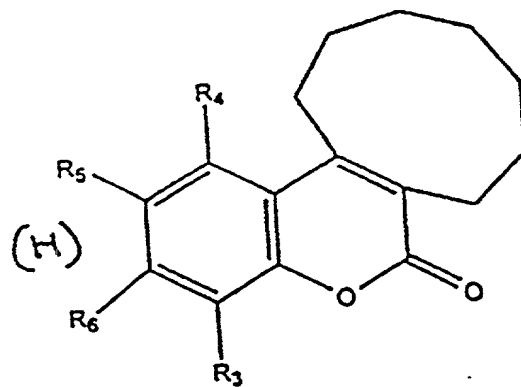
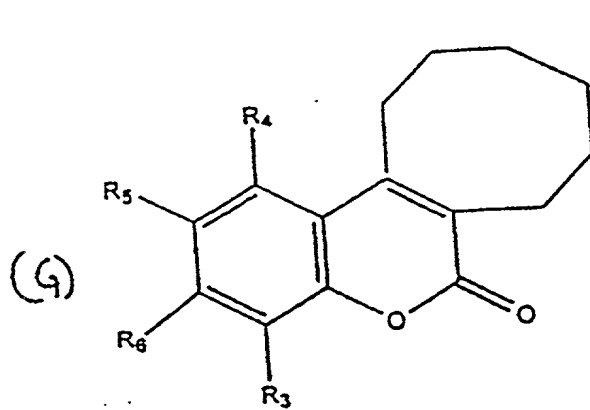
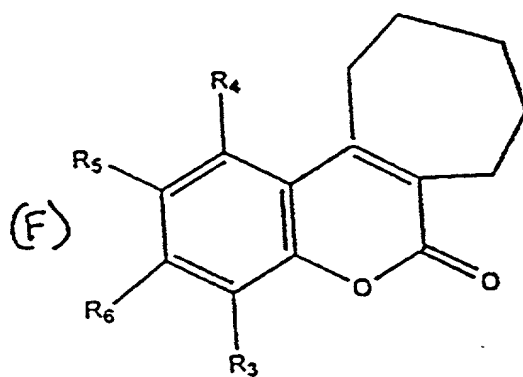
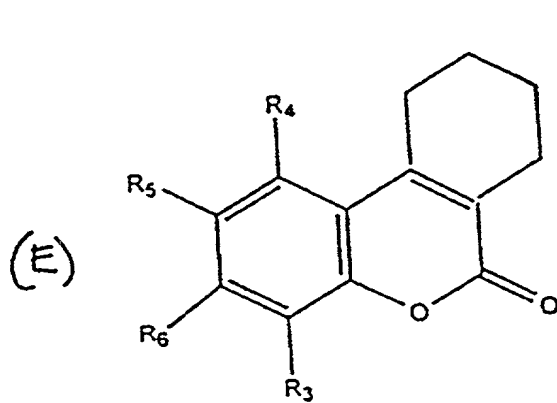
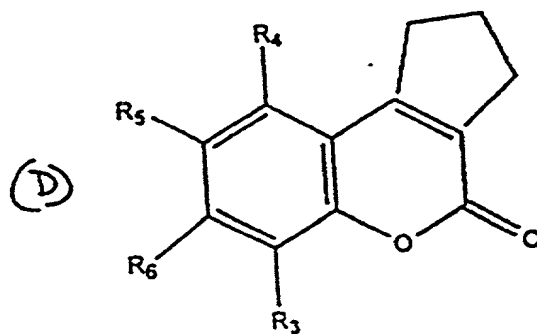
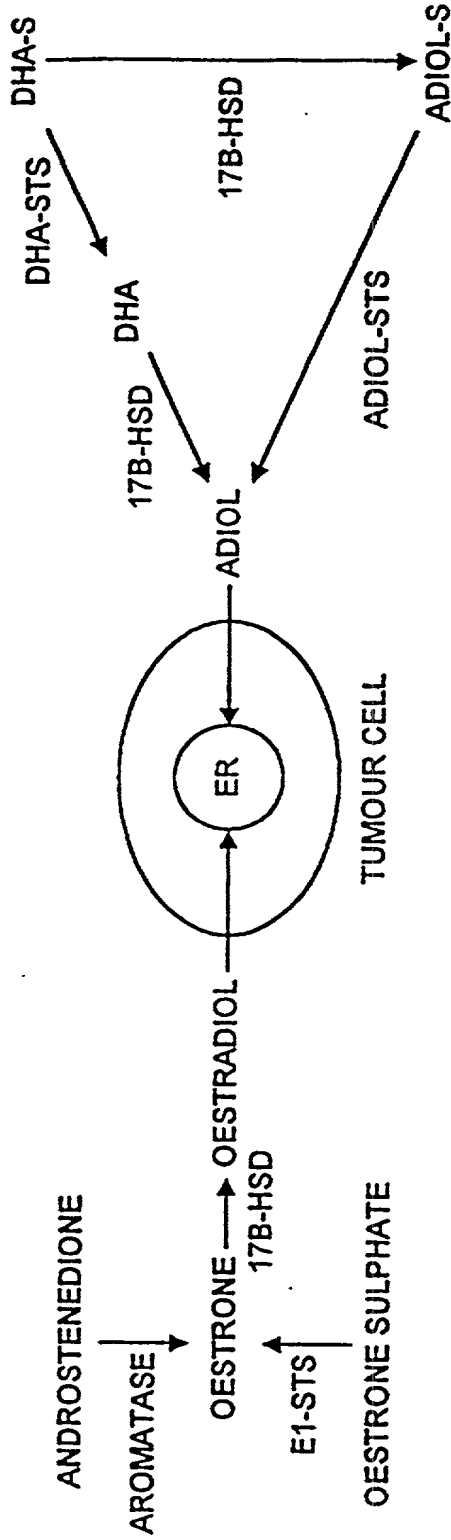


FIG. 15

ORIGIN OF OESTROGENIC STEROIDS IN POSTMENOPAUSAL WOMEN



ER=OESTROGEN RECEPTOR, DHA / -S=DEHYDROEPIANDROSTERONE / -SULPHATE,
 ADIOL=ANDROSTENEDIOL, E1-STS=OESTRONE SULPHATASE, DHA -STS=
 DHA-SULPHATASE, ADIOL-STS=ADIOL SULPHATASE, 17B-HSD=OESTRADIOL 17B-
 HYDROXYSTEROID DEHYDROGENASE

FIG. 16a

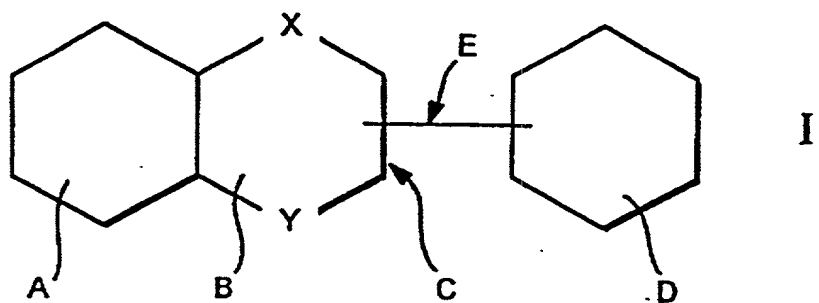


FIG. 16b

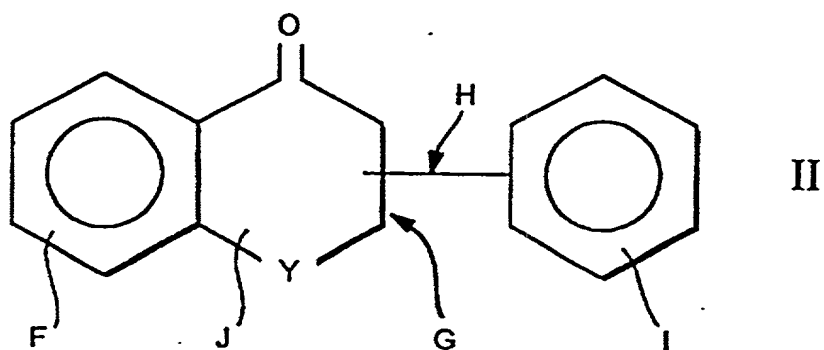
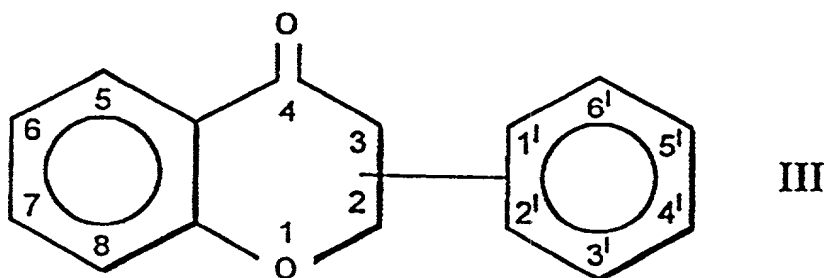
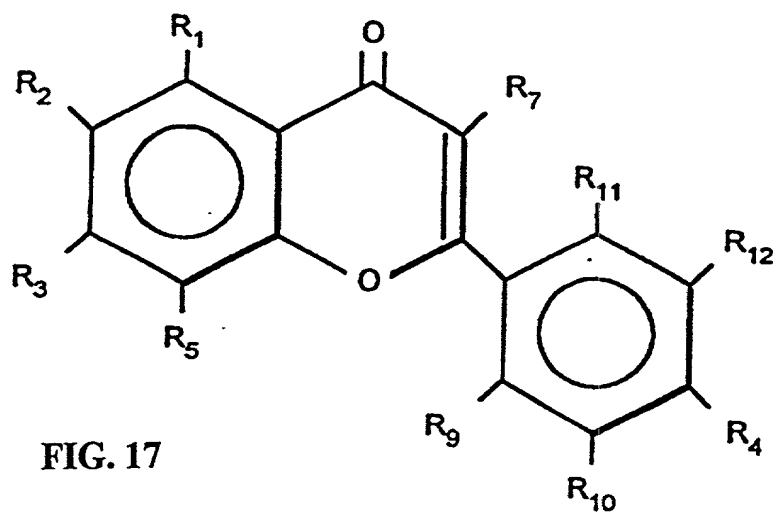
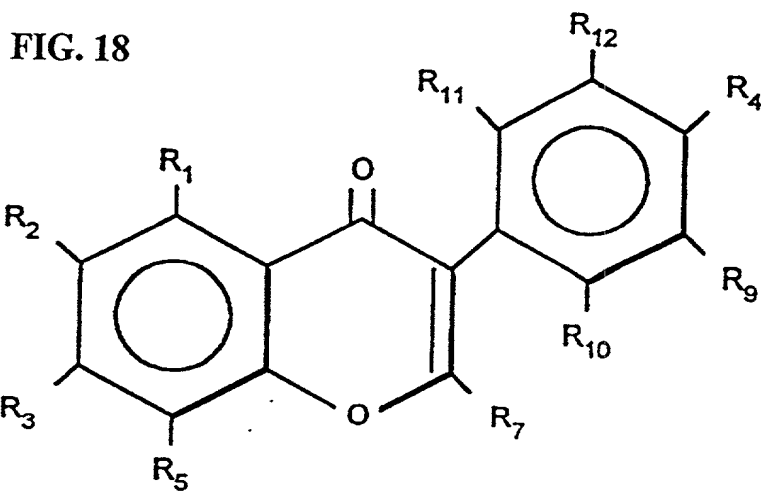


FIG. 16c

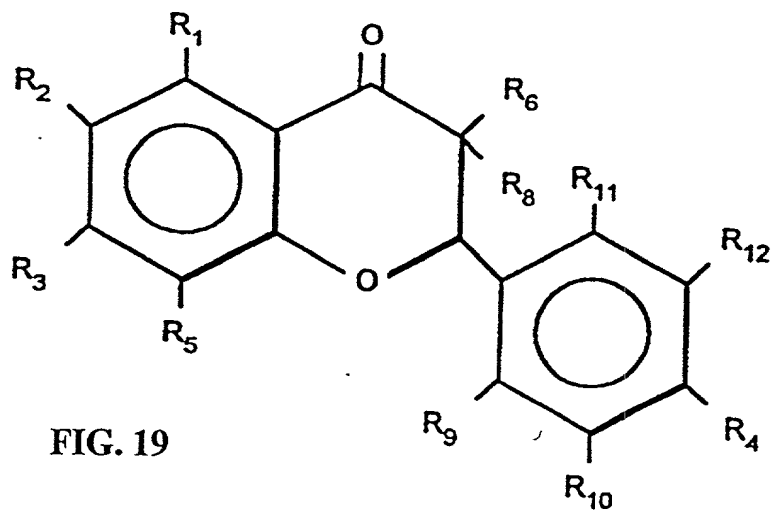




IV

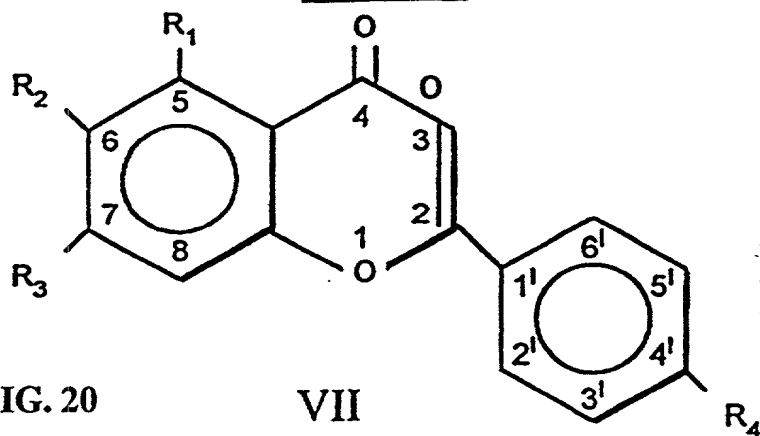


V



VI

FLAVONES

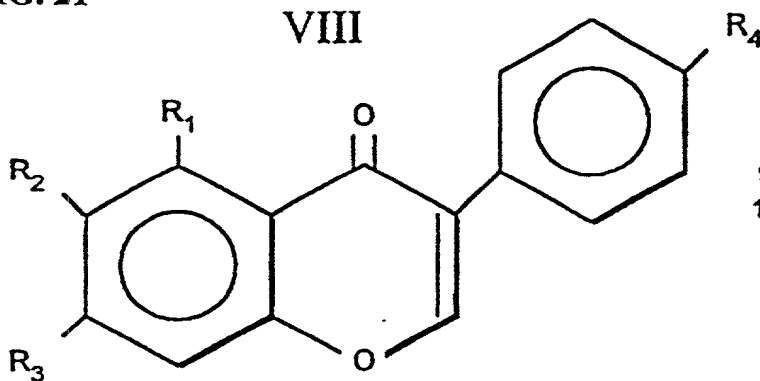


	R_1	R_2	R_3	R_4
1	H	OH	H	H
2	H	OSO ₂ NH ₂	H	H
3	H	H	OH	H
4	H	H	OSO ₂ NH ₂	H
5	OH	H	OH	H
6	OH	H	OSO ₂ NH ₂	H

FIG. 21

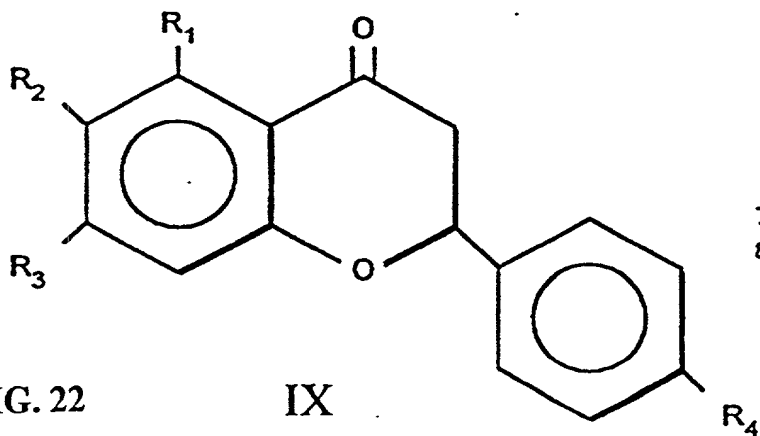
ISOFLAVONES

VIII



	R_1	R_2	R_3	R_4
9	OH	OH	H	OCH ₃
10	OH	H	OSO ₂ NH ₂	OCH ₃

FLAVANONES



	R_1	R_2	R_3	R_4
7	OH	H	OH	OH
8	OH	H	OH	OSO ₂ NH ₂

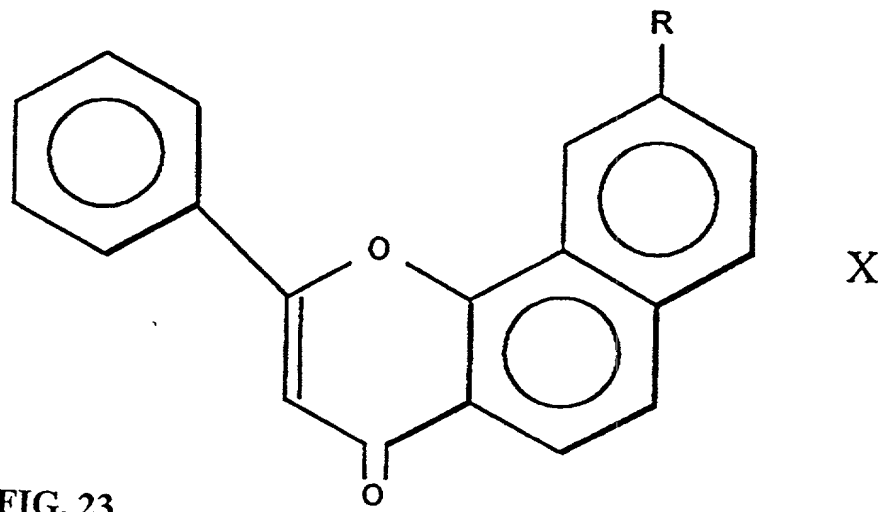


FIG. 23

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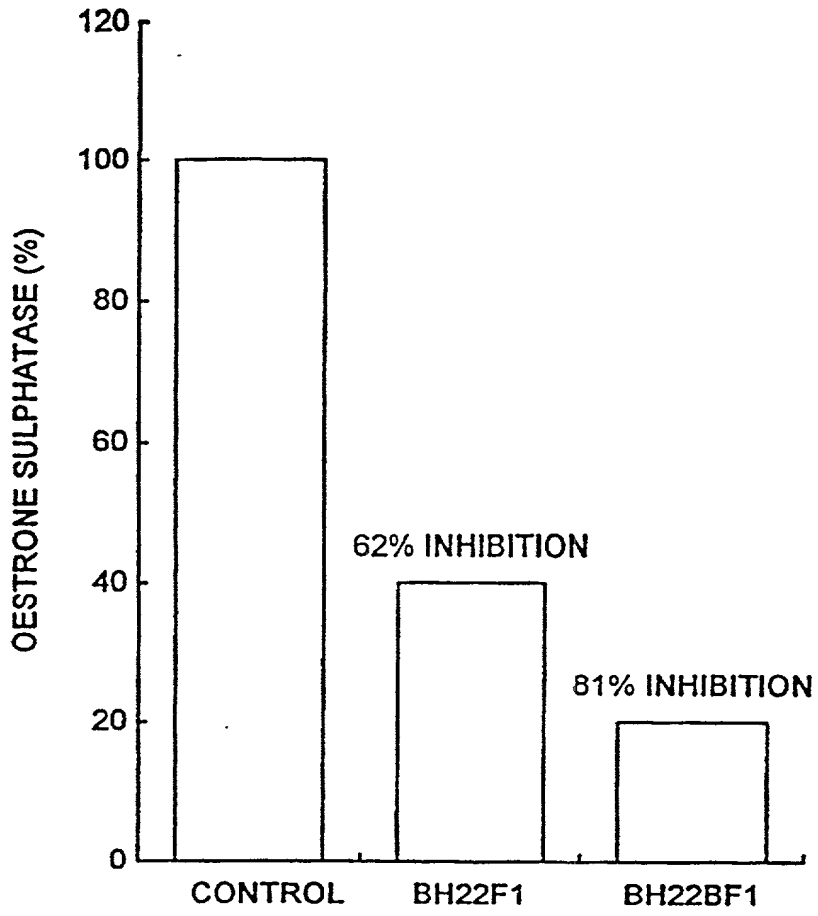
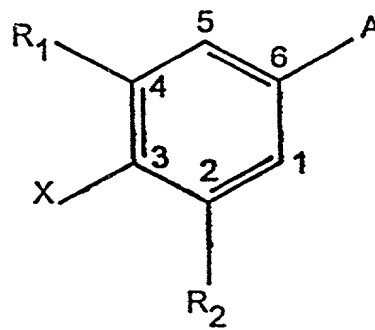


FIG. 24

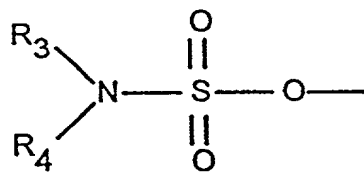
X - B - A I

FIG. 25



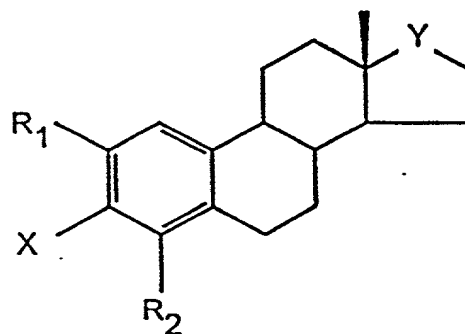
II

FIG. 26



III

FIG. 27



IV

FIG. 28

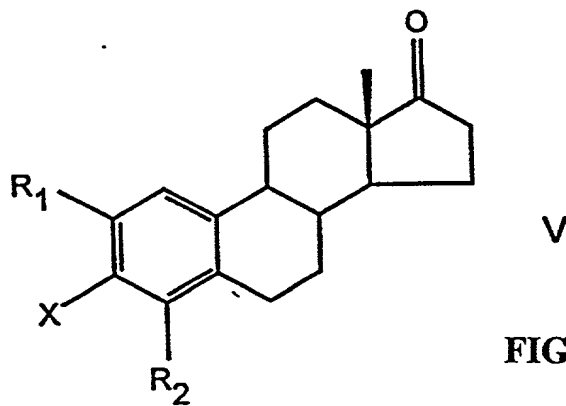
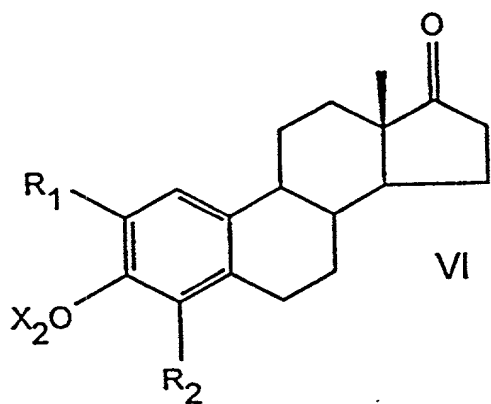
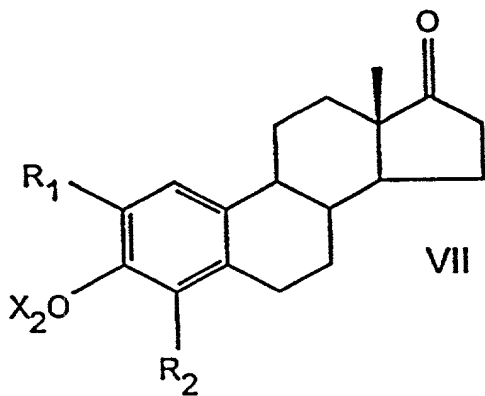


FIG. 29



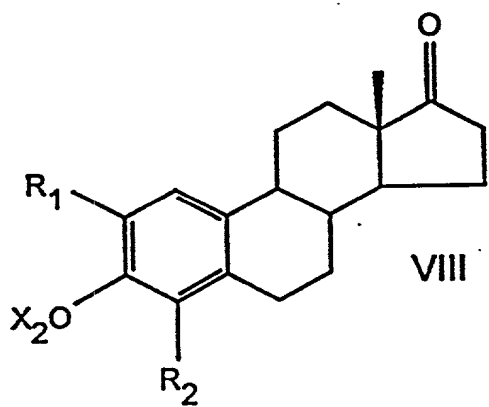
	$X_2 = -SO_2NH_2$
	$\frac{R_1}{R_2}$
a)	$\frac{n-CH_2CH_2CH_3}{H}$
b)	$\frac{H}{n-CH_2CH_2CH_3}$
c)	$\frac{n-CH_2CH_2CH_3}{n-CH_2CH_2CH_3}$

FIG. 30



	$X_2 = -SO_2NH_2$
	$\frac{R_1}{R_2}$
a)	$\frac{-CH_2CH=CH_2}{H}$
b)	$\frac{H}{-CH_2CH=CH_2}$
c)	$\frac{-CH_2CH=CH_2}{-CH_2CH=CH_2}$

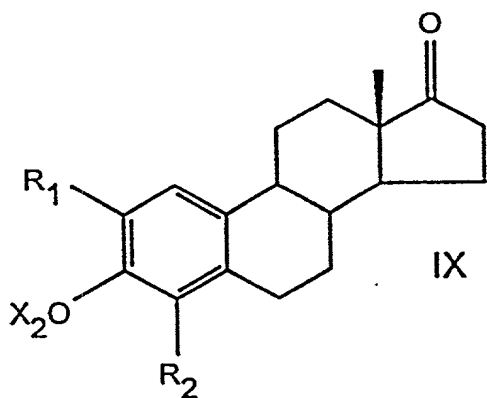
FIG. 31



$X_2 = -SO_2NH_2$

	<u>R₁</u>	<u>R₂</u>
a)	H ₃ CO-	H
b)	H	H ₃ CO-
c)	H ₃ CO-	H ₃ CO-

FIG. 32



$X_2 = -SO_2NH_2$

	<u>R₁</u>	<u>R₂</u>
a)	-NO ₂	H
b)	H	-NO ₂
c)	-NO ₂	-NO ₂

FIG. 33

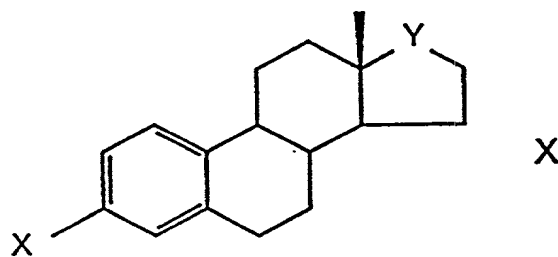


FIG. 34

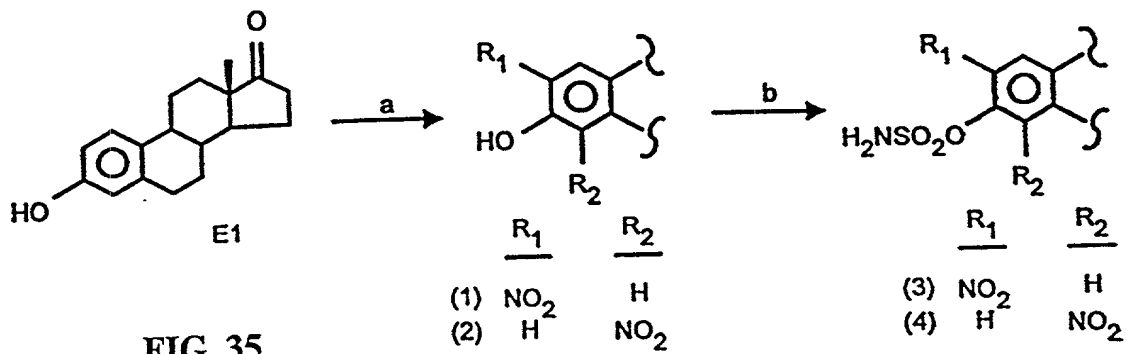


FIG. 35

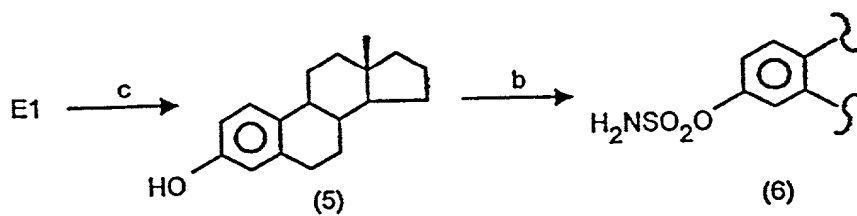


FIG. 36

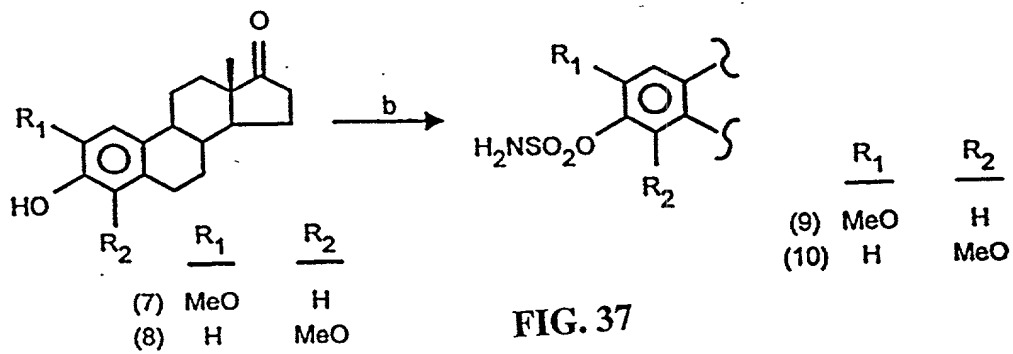
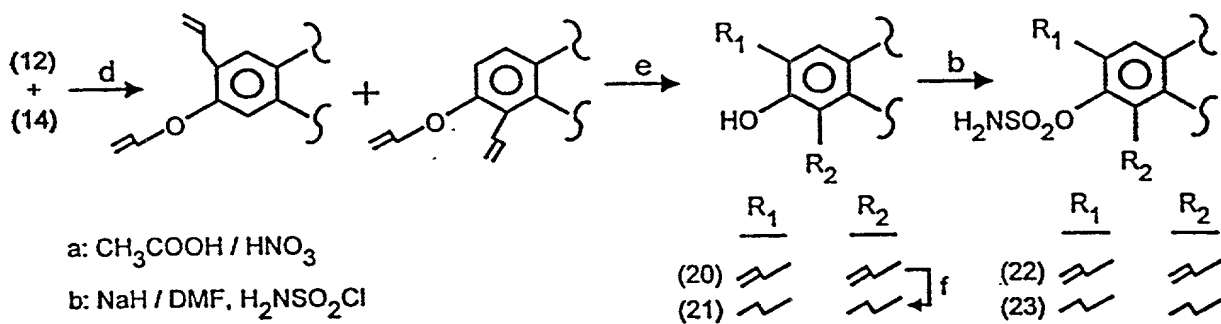
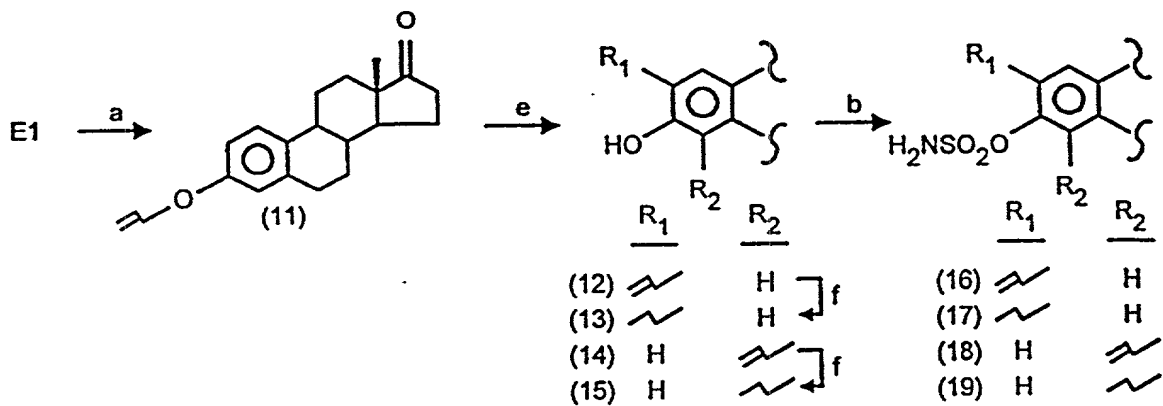


FIG. 37

205210 "SECRET"



a: $\text{CH}_3\text{COOH} / \text{HNO}_3$

b: $\text{NaH} / \text{DMF}, \text{H}_2\text{NSO}_2\text{Cl}$

c: $\text{NH}_2\text{NH}_2 \cdot \text{H}_2\text{O}, \text{KOH} / \text{DIETHYLENE GLYCOL}$

d: $\text{NaH} / \text{DMF}, \text{Br}$

e: $\text{N, N-DIETHYLANILINE}, \Delta$

f: $\text{Pd/C}, \text{H}_2$

FIG. 38

IN VIVO INHIBITION OF OESTRONE SULPHATASE
BY NOMATE (0.1 mg/Kg/DAY FOR 5 DAYS)

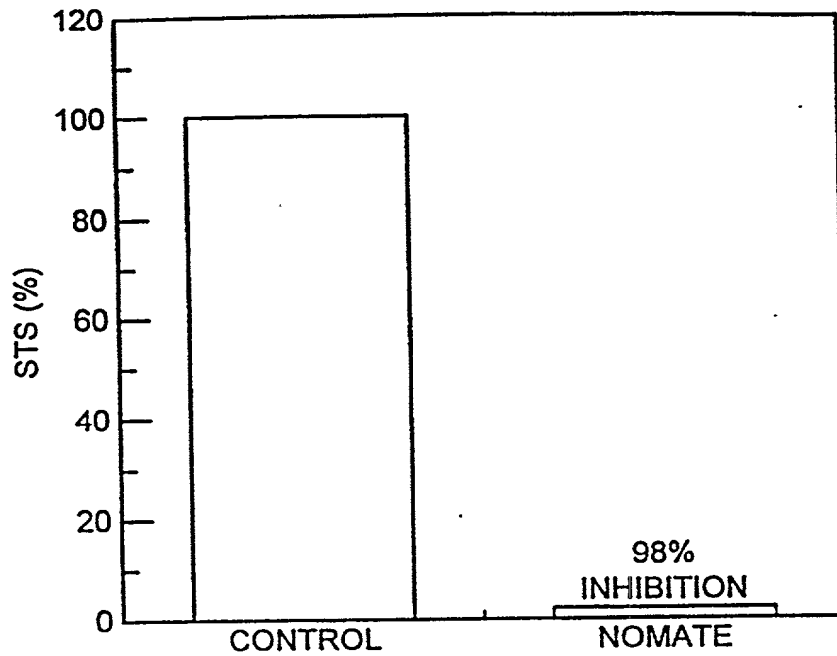


FIG. 39

LACK OF EFFECT OF NOMATE (0.1mg/Kg/DAY FOR 5
DAYS) ON UTERINE WEIGHTS OVARIETOMISED RATS

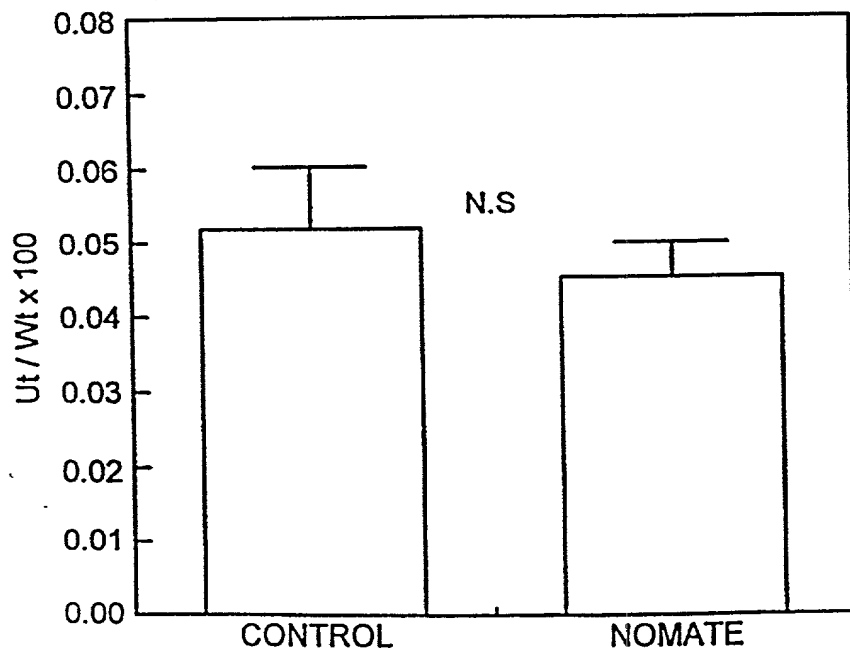


FIG. 40